

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 277687

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034		2. OGRID Number 371682
		3. API Number 30-025-46838
4. Property Code 327126	5. Property Name FELINA FEE	6. Well No. 005H

7. Surface Location

UL - Lot L	Section 26	Township 13S	Range 38E	Lot Idn L	Feet From 1960	N/S Line S	Feet From 1300	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 23	Township 13S	Range 38E	Lot Idn D	Feet From 100	N/S Line N	Feet From 1318	E/W Line W	County Lea
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9. Pool Information

BRONCO;SAN ANDRES, SOUTH	7500
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3799
16. Multiple N	17. Proposed Depth 13491	18. Formation San Andres Formation	19. Contractor	20. Spud Date 6/27/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	2400	850	0
Prod	8.75	5.5	20	13491	3000	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	Schafer
Double Ram	3000	1500	Schafer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by William McMan	Approved By: Paul F Kautz	
Title:	Title: Geologist	
Email Address: bill.mcman@stewardenergy.net	Approved Date: 2/7/2020	Expiration Date: 2/7/2022
Date: 2/7/2020	Phone: 214-297-0516	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 7500	³ Pool Name BRONCO; SAN ANDRES, SOUTH
⁴ Property Code	⁵ Property Name FELINA FEE		⁶ Well Number 5H
⁷ OGRID No. 371682	⁸ Operator Name STEWART ENERGY II, LLC		⁹ Elevation 3799'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	26	13S	38E		1960	SOUTH	1300	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	13S	38E		100	NORTH	1318	WEST	LEA

¹² Dedicated Acres 480.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *W Price* Date: Jan 27-2020
Wayne Price-Price LLC Consultant for SEII

Printed Name: wayneprice@q.com
E-mail Address:

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 17, 2020
Date of Survey

Signature and Seal of Professional Surveyor: *Lloyd P. Short*
Certificate Number: LLOYD P. SHORT 21653

LAST TAKE POINT/BOTTOM HOLE LOCATION
100' FNL 1318' FWL, SECTION 23
NAD 83, SPCS NM EAST
X: 927250.60' / Y: 796887.84'
LAT: 33.18422300N / LON: 103.07196435W
NAD 27, SPCS NM EAST
X: 886074.71' / Y: 796825.06'
LAT: 33.18411600N / LON: 103.07146549W

FIRST TAKE POINT
2548' FNL 1301' FWL, SECTION 26
NAD 83, SPCS NM EAST
X: 927360.83' / Y: 789150.44'
LAT: 33.16295837N / LON: 103.07190877W
NAD 27, SPCS NM EAST
X: 886184.91' / Y: 789087.89'
LAT: 33.16285134N / LON: 103.07141013W

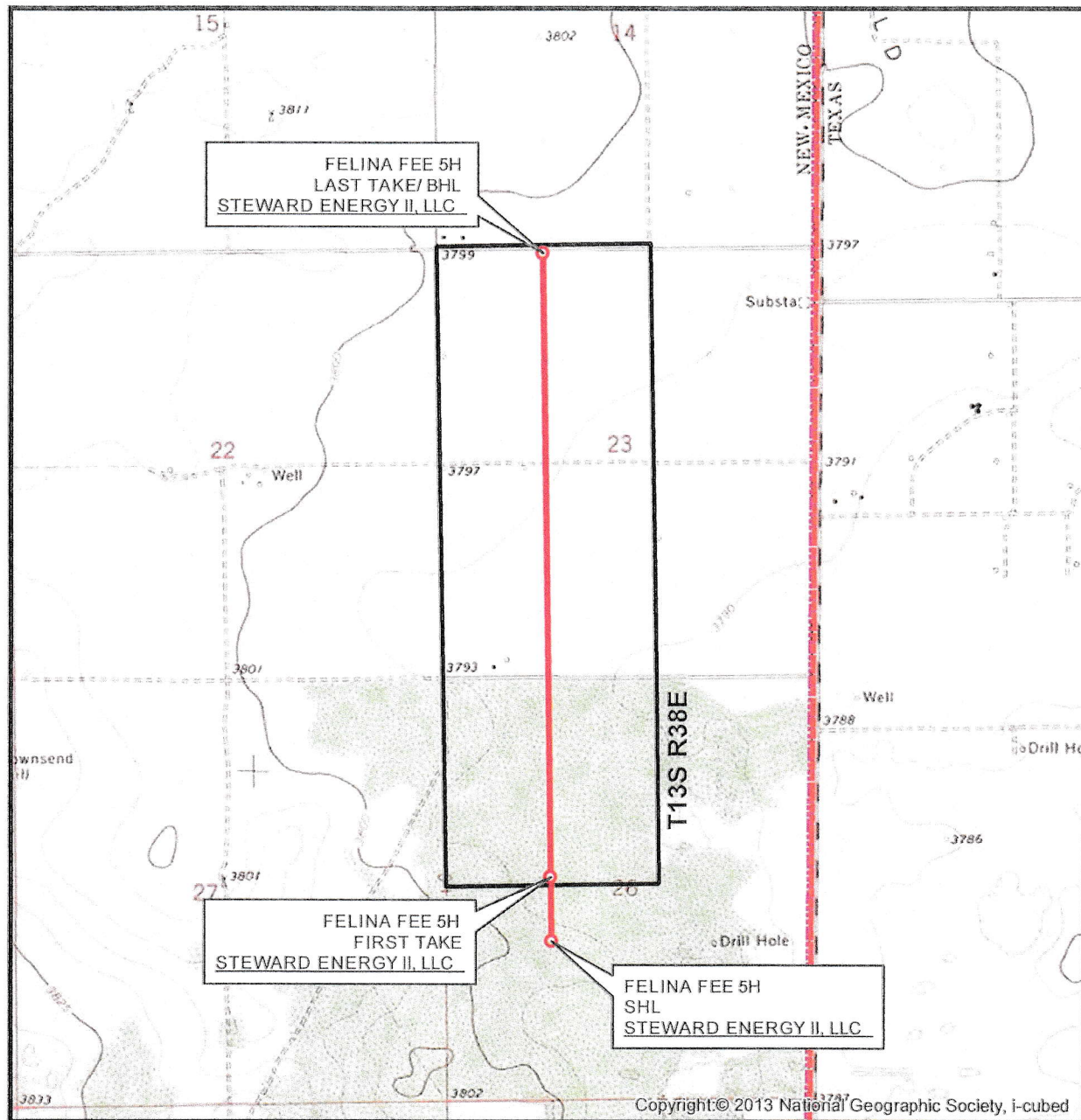
SURFACE HOLE LOCATION
1960' FSL 1300' FWL, SECTION 26
NAD 83, SPCS NM EAST
X: 927371.63' / Y: 788362.67'
LAT: 33.16079336N / LON: 103.07190449W
NAD 27, SPCS NM EAST
X: 886195.70' / Y: 788300.14'
LAT: 33.16068632N / LON: 103.07140587W

CORNER COORDINATES
NAD 83, SPCS NM EAST
A - X: 925931.71' / Y: 796968.63'
B - X: 928579.01' / Y: 797007.20'
C - X: 928692.06' / Y: 789069.83'
D - X: 926061.20' / Y: 789031.49'

CORNER COORDINATES
NAD 27, SPCS NM EAST
A - X: 884755.82' / Y: 796905.79'
B - X: 887403.12' / Y: 796944.49'
C - X: 887516.14' / Y: 789007.35'
D - X: 884885.28' / Y: 788968.88'

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99990013 Convergence: 00°41'16.54001"

LOCATION VERIFICATION MAP



SEC. 26 TWP. 13-S RGE. 38-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: STEWARD ENERGY II, LLC
 DESCRIPTION: 1960' FSL & 1300' FWL
 ELEVATION: 3799'
 LEASE: FELINA FEE
 U.S.G.S. TOPOGRAPHIC MAP: PRAIRIEVIEW NE, NM, TX.

1" = 2,000'
 CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R4039_001

The diagram illustrates a well location map with a grid of wells. The top section contains wells numbered 6 through 35. A red line connects three callout boxes:

- FELINA FEE 5H
LAST TAKE/ BHL
STEWARD ENERGY II, LLC** (pointing to well 14)
- FELINA FEE 5H
FIRST TAKE
STEWARD ENERGY II, LLC** (pointing to well 27)
- FELINA FEE 5H
SHL
STEWARD ENERGY II, LLC** (pointing to well 26)

The bottom section of the map shows additional wells labeled **T13S R38E** and **T14S R38E**.

1" = 1 MILE



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R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
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Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 2/7/2020

☒ Original

Operator & OGRID No.: [371682] STEWARD ENERGY II, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
FELINA FEE #005H	30-025-46838	L-26-13S-38E	1960S 1300W	200	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to STAKEHOLDER GAS UTILITY, LLC and will be connected to STAKEHOLDER GAS UTILITY, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 5000' of pipeline to connect the facility to Low Pressure gathering system. STEWART ENERGY II, LLC provides (periodically) to STAKEHOLDER GAS UTILITY, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, STEWART ENERGY II, LLC and STAKEHOLDER GAS UTILITY, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at STAKEHOLDER GAS UTILITY, LLC Processing Plant located in Sec. 24, Twn. 13S, Rng. 38E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on STAKEHOLDER GAS UTILITY, LLC system at that time. Based on current information, it is STEWART ENERGY II, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 277687

PERMIT COMMENTS

Operator Name and Address: STEWARD ENERGY II, LLC [371682] 2600 Dallas Parkway Frisco, TX 75034		API Number: 30-025-46838
		Well: FELINA FEE #005H

Created By	Comment	Comment Date
pkautz	Fee Cancellation - Wood not accept credit card	1/29/2020
jwhitaker	Fee Cancellation - Karen called. Steward wants to resubmit.	1/30/2020

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Form APD Conditions

Permit 277687

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: STEWARD ENERGY II, LLC [371682] 2600 Dallas Parkway Frisco, TX 75034	API Number: 30-025-46838
	Well: FELINA FEE #005H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	SURFACE & PRODUCTION CASING - Cement must circulate to surface
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC
Felina Fee 5H
Wellbore #1
Plan #1
Norton 6



SURFACE LOCATION

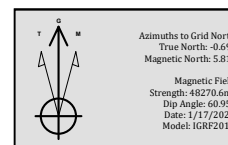
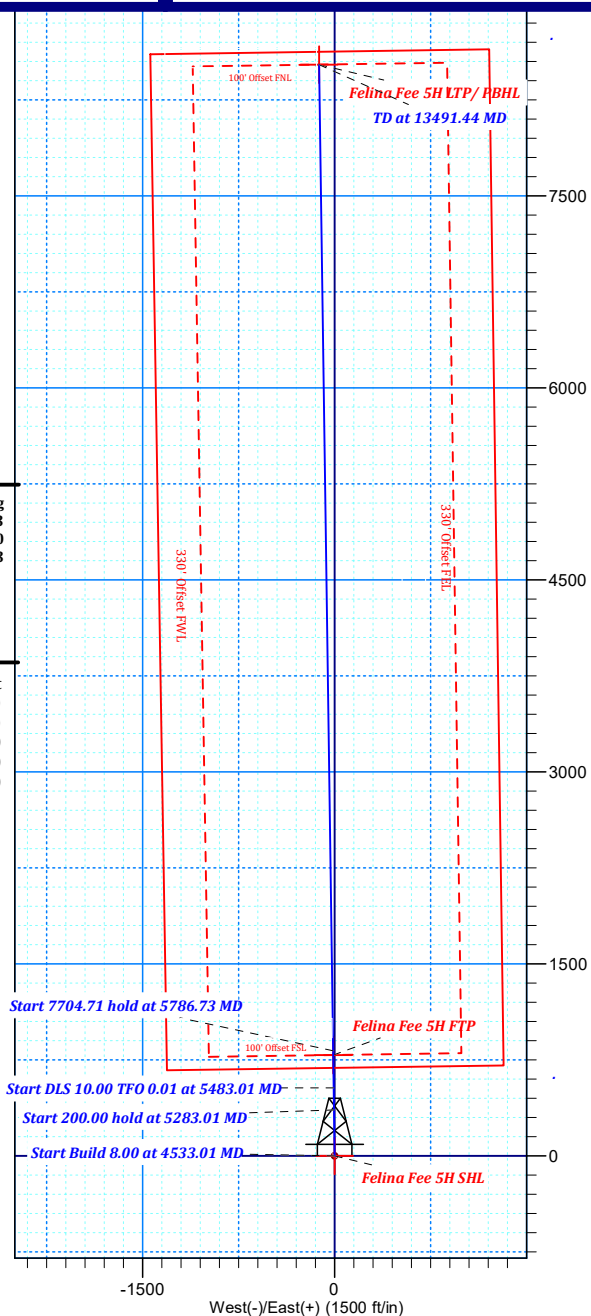
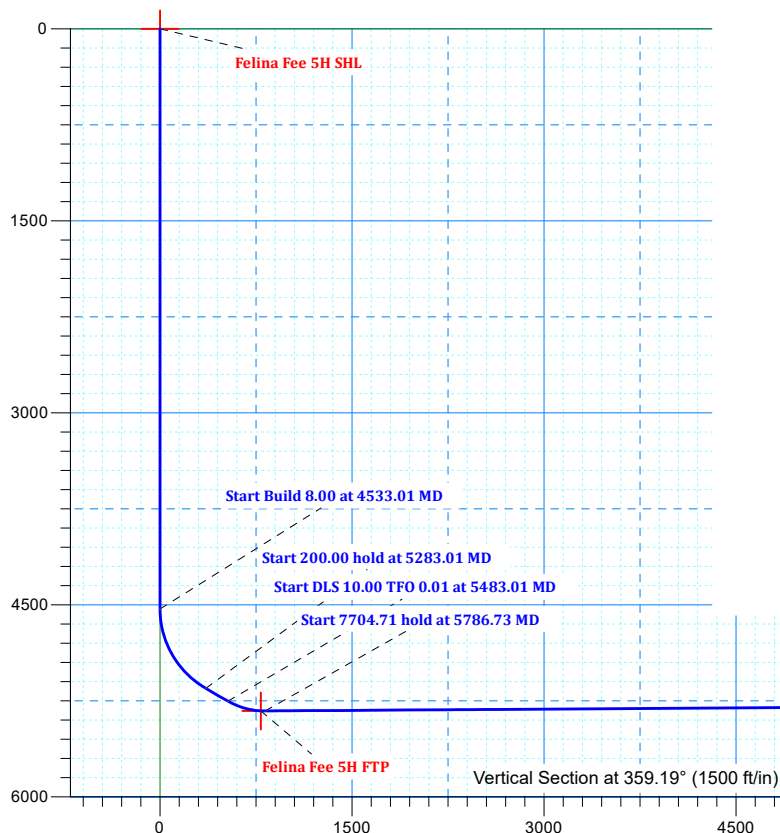
US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
 Northing 788362.67 Easting 927371.63 Latitude 33.161 Longitude -103.072

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Felina Fee 5H SHL	0.00	0.00	0.00	788362.67	927371.63
Felina Fee 5H LTP/ PBHL	5280.00	8525.19	-121.03	796887.84	927250.60
Felina Fee 5H FTP	5330.00	787.77	-10.80	789150.44	927360.83

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4533.01	0.00	0.00	4533.01	0.00	0.00	0.00	0.00
5283.01	60.00	359.19	5153.26	358.06	-5.07	8.00	358.10
5483.01	60.00	359.19	5253.26	531.25	-7.52	0.00	531.30
5786.73	90.37	359.19	5330.00	821.42	-11.63	10.00	821.50
13491.44	90.37	359.19	5280.00	8525.19	-121.03	0.00	8526.05



Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Felina Fee 5H

Felina Fee 5H

Wellbore #1

Plan: Plan #1

Standard Planning Report

17 January, 2020

Planning Report

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (NAD 83) NM East Zone		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Felina Fee 5H		
Site Position:		Northing:	788,362.67 usft
From:	Map	Easting:	927,371.63 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	33.161
		Longitude:	-103.072
		Grid Convergence:	0.69 °

Well	Felina Fee 5H					
Well Position	+N/-S	0.00 ft	Northing:	788,362.67 usft	Latitude:	33.161
	+E/-W	0.00 ft	Easting:	927,371.63 usft	Longitude:	-103.072
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,799.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/17/2020	6.50	60.95	48,270.59517121

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.19	

Plan Survey Tool Program	Date	1/17/2020			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	13,491.43	Plan #1 (Wellbore #1)		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,533.01	0.00	0.00	4,533.01	0.00	0.00	0.00	0.00	0.00	0.00	
5,283.01	60.00	359.19	5,153.26	358.06	-5.07	8.00	8.00	0.00	359.19	
5,483.01	60.00	359.19	5,253.26	531.25	-7.52	0.00	0.00	0.00	0.00	
5,786.73	90.37	359.19	5,330.00	821.42	-11.63	10.00	10.00	0.00	-0.01	
13,491.44	90.37	359.19	5,280.00	8,525.19	-121.03	0.00	0.00	0.00	0.00	Felina Fee 5H LTP/ P

Planning Report

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,533.01	0.00	0.00	4,533.01	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 8.00 at 4533.01 MD										
4,600.00	5.36	359.19	4,599.90	3.13	-0.04	3.13	8.00	8.00	0.00	
4,700.00	13.36	359.19	4,698.49	19.38	-0.27	19.38	8.00	8.00	0.00	
4,800.00	21.36	359.19	4,793.86	49.19	-0.70	49.19	8.00	8.00	0.00	
4,900.00	29.36	359.19	4,884.15	91.98	-1.30	91.99	8.00	8.00	0.00	
5,000.00	37.36	359.19	4,967.61	146.92	-2.08	146.93	8.00	8.00	0.00	

Planning Report

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,100.00	45.36	359.19	5,042.60	212.93	-3.01	212.95	8.00	8.00	0.00	
5,200.00	53.36	359.19	5,107.68	288.74	-4.09	288.77	8.00	8.00	0.00	
5,283.01	60.00	359.19	5,153.26	358.06	-5.07	358.10	8.00	8.00	0.00	
Start 200.00 hold at 5283.01 MD										
5,300.00	60.00	359.19	5,161.75	372.78	-5.28	372.81	0.00	0.00	0.00	
5,400.00	60.00	359.19	5,211.75	459.37	-6.50	459.41	0.00	0.00	0.00	
5,483.01	60.00	359.19	5,253.26	531.25	-7.52	531.30	0.00	0.00	0.00	
Start DLS 10.00 TFO 0.01 at 5483.01 MD										
5,500.00	61.70	359.19	5,261.53	546.09	-7.73	546.14	10.00	10.00	0.00	
5,600.00	71.70	359.19	5,301.04	637.80	-9.03	637.87	10.00	10.00	0.00	
5,700.00	81.70	359.19	5,324.01	734.99	-10.41	735.06	10.00	10.00	0.00	
5,786.73	90.37	359.19	5,330.00	821.42	-11.63	821.50	10.00	10.00	0.00	
Start 7704.71 hold at 5786.73 MD										
5,800.00	90.37	359.19	5,329.92	834.69	-11.82	834.77	0.00	0.00	0.00	
5,900.00	90.37	359.19	5,329.27	934.68	-13.24	934.77	0.00	0.00	0.00	
6,000.00	90.37	359.19	5,328.62	1,034.66	-14.66	1,034.77	0.00	0.00	0.00	
6,100.00	90.37	359.19	5,327.97	1,134.65	-16.08	1,134.77	0.00	0.00	0.00	
6,200.00	90.37	359.19	5,327.32	1,234.64	-17.50	1,234.76	0.00	0.00	0.00	
6,300.00	90.37	359.19	5,326.67	1,334.63	-18.92	1,334.76	0.00	0.00	0.00	
6,400.00	90.37	359.19	5,326.02	1,434.62	-20.34	1,434.76	0.00	0.00	0.00	
6,500.00	90.37	359.19	5,325.38	1,534.60	-21.76	1,534.76	0.00	0.00	0.00	
6,600.00	90.37	359.19	5,324.73	1,634.59	-23.18	1,634.76	0.00	0.00	0.00	
6,700.00	90.37	359.19	5,324.08	1,734.58	-24.60	1,734.75	0.00	0.00	0.00	
6,800.00	90.37	359.19	5,323.43	1,834.57	-26.02	1,834.75	0.00	0.00	0.00	
6,900.00	90.37	359.19	5,322.78	1,934.55	-27.44	1,934.75	0.00	0.00	0.00	
7,000.00	90.37	359.19	5,322.13	2,034.54	-28.86	2,034.75	0.00	0.00	0.00	
7,100.00	90.37	359.19	5,321.48	2,134.53	-30.28	2,134.74	0.00	0.00	0.00	
7,200.00	90.37	359.19	5,320.83	2,234.52	-31.70	2,234.74	0.00	0.00	0.00	
7,300.00	90.37	359.19	5,320.18	2,334.51	-33.12	2,334.74	0.00	0.00	0.00	
7,400.00	90.37	359.19	5,319.53	2,434.49	-34.54	2,434.74	0.00	0.00	0.00	
7,500.00	90.37	359.19	5,318.89	2,534.48	-35.96	2,534.74	0.00	0.00	0.00	
7,600.00	90.37	359.19	5,318.24	2,634.47	-37.38	2,634.73	0.00	0.00	0.00	
7,700.00	90.37	359.19	5,317.59	2,734.46	-38.80	2,734.73	0.00	0.00	0.00	
7,800.00	90.37	359.19	5,316.94	2,834.44	-40.22	2,834.73	0.00	0.00	0.00	
7,900.00	90.37	359.19	5,316.29	2,934.43	-41.64	2,934.73	0.00	0.00	0.00	
8,000.00	90.37	359.19	5,315.64	3,034.42	-43.06	3,034.73	0.00	0.00	0.00	
8,100.00	90.37	359.19	5,314.99	3,134.41	-44.48	3,134.72	0.00	0.00	0.00	
8,200.00	90.37	359.19	5,314.34	3,234.40	-45.90	3,234.72	0.00	0.00	0.00	
8,300.00	90.37	359.19	5,313.69	3,334.38	-47.32	3,334.72	0.00	0.00	0.00	
8,400.00	90.37	359.19	5,313.04	3,434.37	-48.74	3,434.72	0.00	0.00	0.00	
8,500.00	90.37	359.19	5,312.40	3,534.36	-50.16	3,534.72	0.00	0.00	0.00	
8,600.00	90.37	359.19	5,311.75	3,634.35	-51.58	3,634.71	0.00	0.00	0.00	
8,700.00	90.37	359.19	5,311.10	3,734.34	-53.00	3,734.71	0.00	0.00	0.00	
8,800.00	90.37	359.19	5,310.45	3,834.32	-54.42	3,834.71	0.00	0.00	0.00	
8,900.00	90.37	359.19	5,309.80	3,934.31	-55.84	3,934.71	0.00	0.00	0.00	
9,000.00	90.37	359.19	5,309.15	4,034.30	-57.26	4,034.70	0.00	0.00	0.00	
9,100.00	90.37	359.19	5,308.50	4,134.29	-58.68	4,134.70	0.00	0.00	0.00	
9,200.00	90.37	359.19	5,307.85	4,234.27	-60.10	4,234.70	0.00	0.00	0.00	
9,300.00	90.37	359.19	5,307.20	4,334.26	-61.52	4,334.70	0.00	0.00	0.00	
9,400.00	90.37	359.19	5,306.55	4,434.25	-62.94	4,434.70	0.00	0.00	0.00	
9,500.00	90.37	359.19	5,305.91	4,534.24	-64.36	4,534.69	0.00	0.00	0.00	
9,600.00	90.37	359.19	5,305.26	4,634.23	-65.78	4,634.69	0.00	0.00	0.00	
9,700.00	90.37	359.19	5,304.61	4,734.21	-67.20	4,734.69	0.00	0.00	0.00	

Planning Report

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,800.00	90.37	359.19	5,303.96	4,834.20	-68.62	4,834.69	0.00	0.00	0.00	
9,900.00	90.37	359.19	5,303.31	4,934.19	-70.04	4,934.69	0.00	0.00	0.00	
10,000.00	90.37	359.19	5,302.66	5,034.18	-71.46	5,034.68	0.00	0.00	0.00	
10,100.00	90.37	359.19	5,302.01	5,134.16	-72.88	5,134.68	0.00	0.00	0.00	
10,200.00	90.37	359.19	5,301.36	5,234.15	-74.30	5,234.68	0.00	0.00	0.00	
10,300.00	90.37	359.19	5,300.71	5,334.14	-75.72	5,334.68	0.00	0.00	0.00	
10,400.00	90.37	359.19	5,300.06	5,434.13	-77.14	5,434.68	0.00	0.00	0.00	
10,500.00	90.37	359.19	5,299.41	5,534.12	-78.56	5,534.67	0.00	0.00	0.00	
10,600.00	90.37	359.19	5,298.77	5,634.10	-79.98	5,634.67	0.00	0.00	0.00	
10,700.00	90.37	359.19	5,298.12	5,734.09	-81.40	5,734.67	0.00	0.00	0.00	
10,800.00	90.37	359.19	5,297.47	5,834.08	-82.82	5,834.67	0.00	0.00	0.00	
10,900.00	90.37	359.19	5,296.82	5,934.07	-84.24	5,934.67	0.00	0.00	0.00	
11,000.00	90.37	359.19	5,296.17	6,034.05	-85.66	6,034.66	0.00	0.00	0.00	
11,100.00	90.37	359.19	5,295.52	6,134.04	-87.08	6,134.66	0.00	0.00	0.00	
11,200.00	90.37	359.19	5,294.87	6,234.03	-88.50	6,234.66	0.00	0.00	0.00	
11,300.00	90.37	359.19	5,294.22	6,334.02	-89.92	6,334.66	0.00	0.00	0.00	
11,400.00	90.37	359.19	5,293.57	6,434.01	-91.33	6,434.65	0.00	0.00	0.00	
11,500.00	90.37	359.19	5,292.92	6,533.99	-92.75	6,534.65	0.00	0.00	0.00	
11,600.00	90.37	359.19	5,292.28	6,633.98	-94.17	6,634.65	0.00	0.00	0.00	
11,700.00	90.37	359.19	5,291.63	6,733.97	-95.59	6,734.65	0.00	0.00	0.00	
11,800.00	90.37	359.19	5,290.98	6,833.96	-97.01	6,834.65	0.00	0.00	0.00	
11,900.00	90.37	359.19	5,290.33	6,933.95	-98.43	6,934.64	0.00	0.00	0.00	
12,000.00	90.37	359.19	5,289.68	7,033.93	-99.85	7,034.64	0.00	0.00	0.00	
12,100.00	90.37	359.19	5,289.03	7,133.92	-101.27	7,134.64	0.00	0.00	0.00	
12,200.00	90.37	359.19	5,288.38	7,233.91	-102.69	7,234.64	0.00	0.00	0.00	
12,300.00	90.37	359.19	5,287.73	7,333.90	-104.11	7,334.64	0.00	0.00	0.00	
12,400.00	90.37	359.19	5,287.08	7,433.88	-105.53	7,434.63	0.00	0.00	0.00	
12,500.00	90.37	359.19	5,286.43	7,533.87	-106.95	7,534.63	0.00	0.00	0.00	
12,600.00	90.37	359.19	5,285.79	7,633.86	-108.37	7,634.63	0.00	0.00	0.00	
12,700.00	90.37	359.19	5,285.14	7,733.85	-109.79	7,734.63	0.00	0.00	0.00	
12,800.00	90.37	359.19	5,284.49	7,833.84	-111.21	7,834.63	0.00	0.00	0.00	
12,900.00	90.37	359.19	5,283.84	7,933.82	-112.63	7,934.62	0.00	0.00	0.00	
13,000.00	90.37	359.19	5,283.19	8,033.81	-114.05	8,034.62	0.00	0.00	0.00	
13,100.00	90.37	359.19	5,282.54	8,133.80	-115.47	8,134.62	0.00	0.00	0.00	
13,200.00	90.37	359.19	5,281.89	8,233.79	-116.89	8,234.62	0.00	0.00	0.00	
13,300.00	90.37	359.19	5,281.24	8,333.77	-118.31	8,334.61	0.00	0.00	0.00	
13,400.00	90.37	359.19	5,280.59	8,433.76	-119.73	8,434.61	0.00	0.00	0.00	
13,491.44	90.37	359.19	5,280.00	8,525.19	-121.03	8,526.05	0.00	0.00	0.00	
TD at 13491.44 MD										

Planning Report

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Felina Fee 5H SHL	0.00	0.00	0.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072
- plan hits target center									
- Point									
Felina Fee 5H LTP/ PBH	0.00	0.00	5,280.00	8,525.19	-121.03	796,887.84	927,250.60	33.184	-103.072
- plan hits target center									
- Point									
Felina Fee 5H FTP	0.00	0.00	5,330.00	787.77	-10.80	789,150.44	927,360.83	33.163	-103.072
- plan misses target center by 0.84ft at 5753.12ft MD (5329.24 TVD, 787.83 N, -11.16 E)									
- Point									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment	
4,533.01	4,533.01	0.00	0.00	Start Build 8.00 at 4533.01 MD	
5,283.01	5,153.26	358.06	-5.07	Start 200.00 hold at 5283.01 MD	
5,483.01	5,253.26	531.25	-7.52	Start DLS 10.00 TFO 0.01 at 5483.01 MD	
5,786.73	5,330.00	821.42	-11.63	Start 7704.71 hold at 5786.73 MD	
13,491.44	5,280.00	8,525.19	-121.03	TD at 13491.44 MD	

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Felina Fee 5H

Felina Fee 5H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

17 January, 2020

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (NAD 83) NM East Zone		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Felina Fee 5H			
Site Position:		Northing:	788,362.67 usft	Latitude:	33.161
From:	Map	Easting:	927,371.63 usft	Longitude:	-103.072
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.69 °

Well	Felina Fee 5H					
Well Position	+N/-S	0.00 ft	Northing:	788,362.67 usft	Latitude:	33.161
	+E/-W	0.00 ft	Easting:	927,371.63 usft	Longitude:	-103.072
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,799.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/17/2020	6.50	60.95	48,270.59517121

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.19	

Plan Survey Tool Program	Date	1/17/2020			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	13,491.43 Plan #1 (Wellbore #1)			

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,533.01	0.00	0.00	4,533.01	0.00	0.00	0.00	0.00	0.00	0.00	
5,283.01	60.00	359.19	5,153.26	358.06	-5.07	8.00	8.00	0.00	359.19	
5,483.01	60.00	359.19	5,253.26	531.25	-7.52	0.00	0.00	0.00	0.00	
5,786.73	90.37	359.19	5,330.00	821.42	-11.63	10.00	10.00	0.00	-0.01	
13,491.44	90.37	359.19	5,280.00	8,525.19	-121.03	0.00	0.00	0.00	0.00	Felina Fee 5H LTP/ P

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured			Vertical			Map	Map			
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
100.00	0.00	0.00	100.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
200.00	0.00	0.00	200.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
300.00	0.00	0.00	300.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
400.00	0.00	0.00	400.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
500.00	0.00	0.00	500.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
600.00	0.00	0.00	600.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
700.00	0.00	0.00	700.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
800.00	0.00	0.00	800.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
900.00	0.00	0.00	900.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
4,533.01	0.00	0.00	4,533.01	0.00	0.00	788,362.67	927,371.63	33.161	-103.072	
Start Build 8.00 at 4533.01 MD										
4,600.00	5.36	359.19	4,599.90	3.13	-0.04	788,365.80	927,371.59	33.161	-103.072	
4,700.00	13.36	359.19	4,698.49	19.38	-0.27	788,382.05	927,371.36	33.161	-103.072	
4,800.00	21.36	359.19	4,793.86	49.19	-0.70	788,411.85	927,370.93	33.161	-103.072	
4,900.00	29.36	359.19	4,884.15	91.98	-1.30	788,454.64	927,370.33	33.161	-103.072	
5,000.00	37.36	359.19	4,967.61	146.92	-2.08	788,509.58	927,369.55	33.161	-103.072	
5,100.00	45.36	359.19	5,042.60	212.93	-3.01	788,575.60	927,368.62	33.161	-103.072	

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
5,200.00	53.36	359.19	5,107.68	288.74	-4.09	788,651.41	927,367.54		33.162	-103.072
5,283.01	60.00	359.19	5,153.26	358.06	-5.07	788,720.73	927,366.56		33.162	-103.072
Start 200.00 hold at 5283.01 MD										
5,300.00	60.00	359.19	5,161.75	372.78	-5.28	788,735.44	927,366.35		33.162	-103.072
5,400.00	60.00	359.19	5,211.75	459.37	-6.50	788,822.04	927,365.13		33.162	-103.072
5,483.01	60.00	359.19	5,253.26	531.25	-7.52	788,893.92	927,364.11		33.162	-103.072
Start DLS 10.00 TFO 0.01 at 5483.01 MD										
5,500.00	61.70	359.19	5,261.53	546.09	-7.73	788,908.75	927,363.90		33.162	-103.072
5,600.00	71.70	359.19	5,301.04	637.80	-9.03	789,000.47	927,362.60		33.163	-103.072
5,700.00	81.70	359.19	5,324.01	734.99	-10.41	789,097.66	927,361.22		33.163	-103.072
5,786.73	90.37	359.19	5,330.00	821.42	-11.63	789,184.08	927,360.00		33.163	-103.072
Start 7704.71 hold at 5786.73 MD										
5,800.00	90.37	359.19	5,329.92	834.69	-11.82	789,197.35	927,359.81		33.163	-103.072
5,900.00	90.37	359.19	5,329.27	934.68	-13.24	789,297.34	927,358.39		33.163	-103.072
6,000.00	90.37	359.19	5,328.62	1,034.66	-14.66	789,397.33	927,356.97		33.164	-103.072
6,100.00	90.37	359.19	5,327.97	1,134.65	-16.08	789,497.32	927,355.55		33.164	-103.072
6,200.00	90.37	359.19	5,327.32	1,234.64	-17.50	789,597.30	927,354.13		33.164	-103.072
6,300.00	90.37	359.19	5,326.67	1,334.63	-18.92	789,697.29	927,352.71		33.164	-103.072
6,400.00	90.37	359.19	5,326.02	1,434.62	-20.34	789,797.28	927,351.29		33.165	-103.072
6,500.00	90.37	359.19	5,325.38	1,534.60	-21.76	789,897.27	927,349.87		33.165	-103.072
6,600.00	90.37	359.19	5,324.73	1,634.59	-23.18	789,997.26	927,348.45		33.165	-103.072
6,700.00	90.37	359.19	5,324.08	1,734.58	-24.60	790,097.24	927,347.03		33.166	-103.072
6,800.00	90.37	359.19	5,323.43	1,834.57	-26.02	790,197.23	927,345.61		33.166	-103.072
6,900.00	90.37	359.19	5,322.78	1,934.55	-27.44	790,297.22	927,344.19		33.166	-103.072
7,000.00	90.37	359.19	5,322.13	2,034.54	-28.86	790,397.21	927,342.77		33.166	-103.072
7,100.00	90.37	359.19	5,321.48	2,134.53	-30.28	790,497.19	927,341.35		33.167	-103.072
7,200.00	90.37	359.19	5,320.83	2,234.52	-31.70	790,597.18	927,339.93		33.167	-103.072
7,300.00	90.37	359.19	5,320.18	2,334.51	-33.12	790,697.17	927,338.51		33.167	-103.072
7,400.00	90.37	359.19	5,319.53	2,434.49	-34.54	790,797.16	927,337.09		33.167	-103.072
7,500.00	90.37	359.19	5,318.89	2,534.48	-35.96	790,897.14	927,335.67		33.168	-103.072
7,600.00	90.37	359.19	5,318.24	2,634.47	-37.38	790,997.13	927,334.25		33.168	-103.072
7,700.00	90.37	359.19	5,317.59	2,734.46	-38.80	791,097.12	927,332.83		33.168	-103.072
7,800.00	90.37	359.19	5,316.94	2,834.44	-40.22	791,197.11	927,331.41		33.169	-103.072
7,900.00	90.37	359.19	5,316.29	2,934.43	-41.64	791,297.09	927,329.99		33.169	-103.072
8,000.00	90.37	359.19	5,315.64	3,034.42	-43.06	791,397.08	927,328.57		33.169	-103.072
8,100.00	90.37	359.19	5,314.99	3,134.41	-44.48	791,497.07	927,327.15		33.169	-103.072
8,200.00	90.37	359.19	5,314.34	3,234.40	-45.90	791,597.06	927,325.73		33.170	-103.072
8,300.00	90.37	359.19	5,313.69	3,334.38	-47.32	791,697.04	927,324.31		33.170	-103.072
8,400.00	90.37	359.19	5,313.04	3,434.37	-48.74	791,797.03	927,322.89		33.170	-103.072
8,500.00	90.37	359.19	5,312.40	3,534.36	-50.16	791,897.02	927,321.47		33.171	-103.072
8,600.00	90.37	359.19	5,311.75	3,634.35	-51.58	791,997.01	927,320.05		33.171	-103.072
8,700.00	90.37	359.19	5,311.10	3,734.34	-53.00	792,097.00	927,318.63		33.171	-103.072
8,800.00	90.37	359.19	5,310.45	3,834.32	-54.42	792,196.98	927,317.21		33.171	-103.072
8,900.00	90.37	359.19	5,309.80	3,934.31	-55.84	792,296.97	927,315.79		33.172	-103.072
9,000.00	90.37	359.19	5,309.15	4,034.30	-57.26	792,396.96	927,314.37		33.172	-103.072
9,100.00	90.37	359.19	5,308.50	4,134.29	-58.68	792,496.95	927,312.95		33.172	-103.072
9,200.00	90.37	359.19	5,307.85	4,234.27	-60.10	792,596.93	927,311.53		33.172	-103.072
9,300.00	90.37	359.19	5,307.20	4,334.26	-61.52	792,696.92	927,310.11		33.173	-103.072
9,400.00	90.37	359.19	5,306.55	4,434.25	-62.94	792,796.91	927,308.69		33.173	-103.072
9,500.00	90.37	359.19	5,305.91	4,534.24	-64.36	792,896.90	927,307.27		33.173	-103.072
9,600.00	90.37	359.19	5,305.26	4,634.23	-65.78	792,996.88	927,305.85		33.174	-103.072
9,700.00	90.37	359.19	5,304.61	4,734.21	-67.20	793,096.87	927,304.43		33.174	-103.072
9,800.00	90.37	359.19	5,303.96	4,834.20	-68.62	793,196.86	927,303.01		33.174	-103.072

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
9,900.00	90.37	359.19	5,303.31	4,934.19	-70.04	793,296.85	927,301.59		33.174	-103.072
10,000.00	90.37	359.19	5,302.66	5,034.18	-71.46	793,396.83	927,300.17		33.175	-103.072
10,100.00	90.37	359.19	5,302.01	5,134.16	-72.88	793,496.82	927,298.75		33.175	-103.072
10,200.00	90.37	359.19	5,301.36	5,234.15	-74.30	793,596.81	927,297.33		33.175	-103.072
10,300.00	90.37	359.19	5,300.71	5,334.14	-75.72	793,696.80	927,295.91		33.175	-103.072
10,400.00	90.37	359.19	5,300.06	5,434.13	-77.14	793,796.78	927,294.49		33.176	-103.072
10,500.00	90.37	359.19	5,299.41	5,534.12	-78.56	793,896.77	927,293.07		33.176	-103.072
10,600.00	90.37	359.19	5,298.77	5,634.10	-79.98	793,996.76	927,291.65		33.176	-103.072
10,700.00	90.37	359.19	5,298.12	5,734.09	-81.40	794,096.75	927,290.23		33.177	-103.072
10,800.00	90.37	359.19	5,297.47	5,834.08	-82.82	794,196.74	927,288.82		33.177	-103.072
10,900.00	90.37	359.19	5,296.82	5,934.07	-84.24	794,296.72	927,287.40		33.177	-103.072
11,000.00	90.37	359.19	5,296.17	6,034.05	-85.66	794,396.71	927,285.98		33.177	-103.072
11,100.00	90.37	359.19	5,295.52	6,134.04	-87.08	794,496.70	927,284.56		33.178	-103.072
11,200.00	90.37	359.19	5,294.87	6,234.03	-88.50	794,596.69	927,283.14		33.178	-103.072
11,300.00	90.37	359.19	5,294.22	6,334.02	-89.92	794,696.67	927,281.72		33.178	-103.072
11,400.00	90.37	359.19	5,293.57	6,434.01	-91.33	794,796.66	927,280.30		33.178	-103.072
11,500.00	90.37	359.19	5,292.92	6,533.99	-92.75	794,896.65	927,278.88		33.179	-103.072
11,600.00	90.37	359.19	5,292.28	6,633.98	-94.17	794,996.64	927,277.46		33.179	-103.072
11,700.00	90.37	359.19	5,291.63	6,733.97	-95.59	795,096.62	927,276.04		33.179	-103.072
11,800.00	90.37	359.19	5,290.98	6,833.96	-97.01	795,196.61	927,274.62		33.180	-103.072
11,900.00	90.37	359.19	5,290.33	6,933.95	-98.43	795,296.60	927,273.20		33.180	-103.072
12,000.00	90.37	359.19	5,289.68	7,033.93	-99.85	795,396.59	927,271.78		33.180	-103.072
12,100.00	90.37	359.19	5,289.03	7,133.92	-101.27	795,496.57	927,270.36		33.180	-103.072
12,200.00	90.37	359.19	5,288.38	7,233.91	-102.69	795,596.56	927,268.94		33.181	-103.072
12,300.00	90.37	359.19	5,287.73	7,333.90	-104.11	795,696.55	927,267.52		33.181	-103.072
12,400.00	90.37	359.19	5,287.08	7,433.88	-105.53	795,796.54	927,266.10		33.181	-103.072
12,500.00	90.37	359.19	5,286.43	7,533.87	-106.95	795,896.52	927,264.68		33.181	-103.072
12,600.00	90.37	359.19	5,285.79	7,633.86	-108.37	795,996.51	927,263.26		33.182	-103.072
12,700.00	90.37	359.19	5,285.14	7,733.85	-109.79	796,096.50	927,261.84		33.182	-103.072
12,800.00	90.37	359.19	5,284.49	7,833.84	-111.21	796,196.49	927,260.42		33.182	-103.072
12,900.00	90.37	359.19	5,283.84	7,933.82	-112.63	796,296.48	927,259.00		33.183	-103.072
13,000.00	90.37	359.19	5,283.19	8,033.81	-114.05	796,396.46	927,257.58		33.183	-103.072
13,100.00	90.37	359.19	5,282.54	8,133.80	-115.47	796,496.45	927,256.16		33.183	-103.072
13,200.00	90.37	359.19	5,281.89	8,233.79	-116.89	796,596.44	927,254.74		33.183	-103.072
13,300.00	90.37	359.19	5,281.24	8,333.77	-118.31	796,696.43	927,253.32		33.184	-103.072
13,400.00	90.37	359.19	5,280.59	8,433.76	-119.73	796,796.41	927,251.90		33.184	-103.072
13,491.44	90.37	359.19	5,280.00	8,525.19	-121.03	796,887.84	927,250.60		33.184	-103.072
TD at 13491.44 MD										

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference	Well Felina Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3799' + RKB 17' @ 3816.00ft (Norton 6)
Site:	Felina Fee 5H	North Reference:	Grid
Well:	Felina Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Felina Fee 5H SHL	0.00	0.00	0.00	0.00	0.00	788,362.67	927,371.63	33.161	-103.072
- plan hits target center									
- Point									
Felina Fee 5H LTP/ PBH	0.00	0.00	5,280.00	8,525.19	-121.03	796,887.84	927,250.60	33.184	-103.072
- plan hits target center									
- Point									
Felina Fee 5H FTP	0.00	0.00	5,330.00	787.77	-10.80	789,150.44	927,360.83	33.163	-103.072
- plan misses target center by 0.84ft at 5753.12ft MD (5329.24 TVD, 787.83 N, -11.16 E)									
- Point									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
		(ft)	(ft)		
4,533.01	4,533.01	0.00	0.00	Start Build 8.00 at 4533.01 MD	
5,283.01	5,153.26	358.06	-5.07	Start 200.00 hold at 5283.01 MD	
5,483.01	5,253.26	531.25	-7.52	Start DLS 10.00 TFO 0.01 at 5483.01 MD	
5,786.73	5,330.00	821.42	-11.63	Start 7704.71 hold at 5786.73 MD	
13,491.44	5,280.00	8,525.19	-121.03	TD at 13491.44 MD	